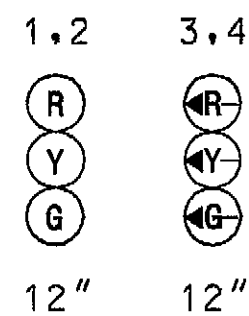
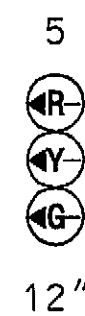


MD 177 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PROPOSED LED SIGNALS



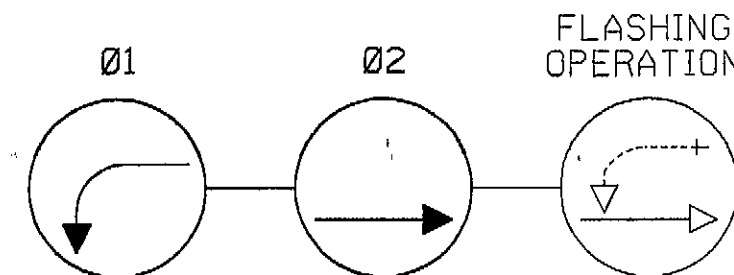
PROPOSED LED MODULES



PROPOSED VIDEO DETECTION

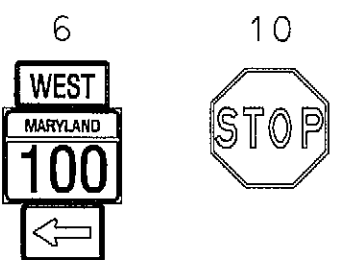


NEMA PHASING

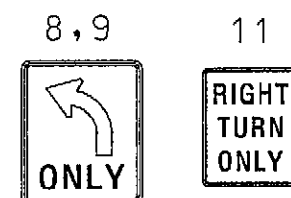


NOTE:  
PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

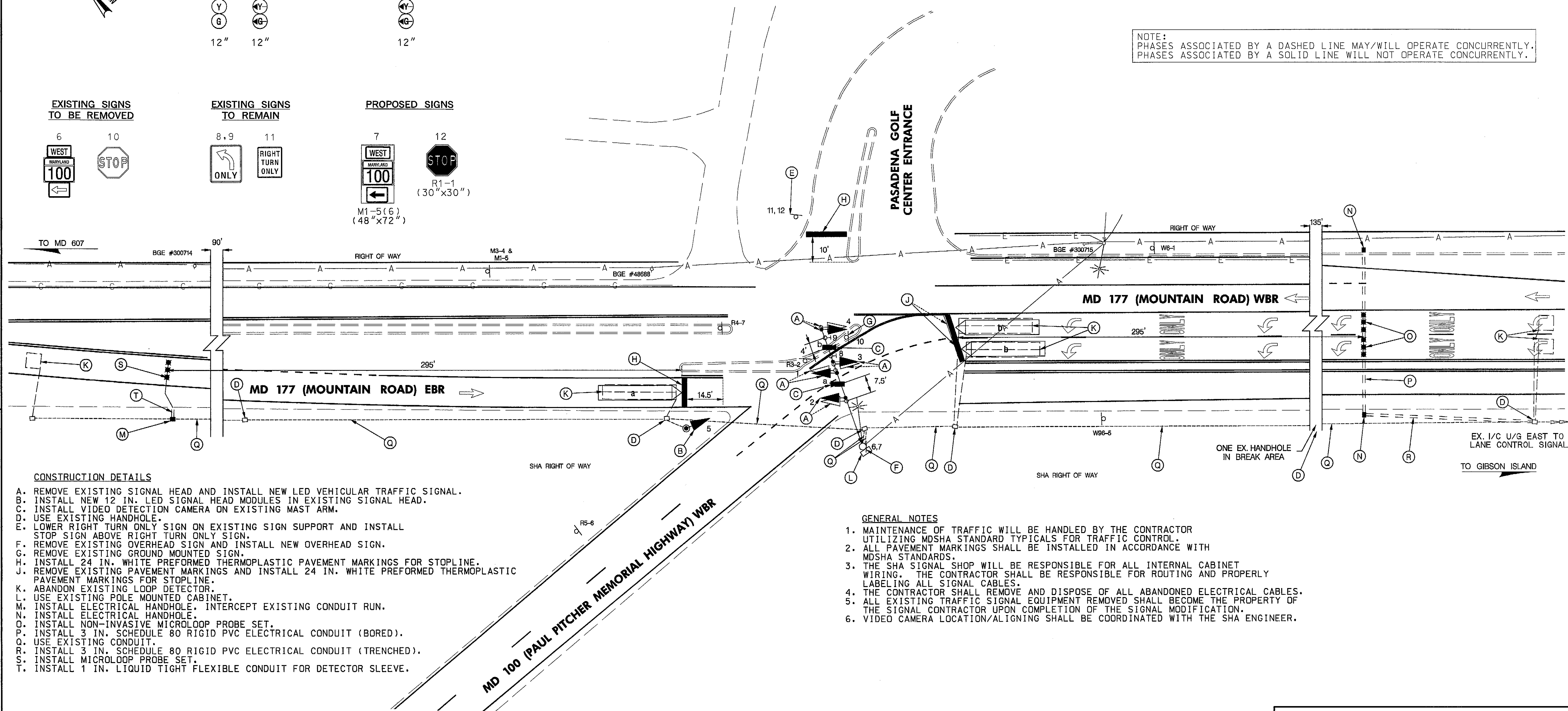
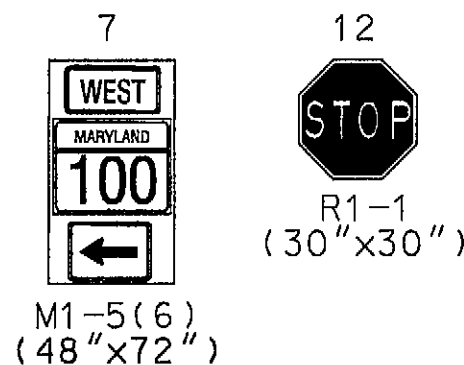
EXISTING SIGNS TO BE REMOVED



EXISTING SIGNS TO REMAIN



PROPOSED SIGNS



CONSTRUCTION DETAILS

- REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW LED VEHICULAR TRAFFIC SIGNAL.
- INSTALL NEW 12 IN. LED SIGNAL HEAD MODULES IN EXISTING SIGNAL HEAD.
- INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM.
- USE EXISTING HANDHOLE.
- LOWER RIGHT TURN ONLY SIGN ON EXISTING SIGN SUPPORT AND INSTALL STOP SIGN ABOVE RIGHT TURN ONLY SIGN.
- REMOVE EXISTING OVERHEAD SIGN AND INSTALL NEW OVERHEAD SIGN.
- REMOVE EXISTING GROUND MOUNTED SIGN.
- INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- ABANDON EXISTING LOOP DETECTOR.
- USE EXISTING POLE MOUNTED CABINET.
- INSTALL ELECTRICAL HANDHOLE, INTERCEPT EXISTING CONDUIT RUN.
- INSTALL ELECTRICAL HANDHOLE.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET.
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
- USE EXISTING CONDUIT.
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL MICROLOOP PROBE SET.
- INSTALL 1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR DETECTOR SLEEVE.

GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.

UTILITY LEGEND

— E — E —	ELECTRIC CABLES	— SD — SD —	STORM DRAIN
— A — A —	AERIAL CABLES	— G — G —	GAS MAIN
— T — T —	TELEPHONE CABLES	— W — W —	WATER MAIN
— F — F —	FIBER-OPTIC	— S — S —	SEWER MAIN

**STV**  
STV Incorporated  
7125 Ambassador Road, Suite 200  
Baltimore, MD 21244  
www.stvinc.com

**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 177 (MOUNTAIN ROAD)  
AT MD 100 (PAUL T. PITCHER MEMORIAL HIGHWAY)  
PASADENA, MARYLAND

SIGNALIZATION PLAN SHEET

SCALE 1"=20' ADVERTISED DATE 8/1994 CONTRACT NO. AW-455-457-585

DESIGNED BY N/A COUNTY ANNE ARUNDEL  
DRAWN BY N/A LOGMILE 02017705.07  
CHECKED BY N/A TMS NO. K256  
F.A.P. NO. TOD NO.

TS NO. 4483-A DRAWING SG-01 OF 02 SHEET NO. 01 OF 02

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

UPGRADE TO FULL SIGNAL CONTROL  
INSTALL LED SIGNALS AND VIDEO DETECTION  
SHA NO. X05535168 10/2010  
STV MGS

PLOTTED: Thursday, September 16, 2010 AT 01:58 PM  
FILE: I:\PROJECTS\4014255\4014255\_0058\Drawings\TRAFFIC\SG-P000-MD177.dgn